Quick exhaust valves VBQF





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Product range overview and type codes

Function

Higher piston speeds can be achieved on the return stroke of single and double-acting drives with the quick exhaust valves VBQF.

Compressed air flows from the control valve via the VBQF to the drive. The

exhaust port 3 is closed at this time. When the pressure at 1 falls, exhaust flow occurs from 2 to 3. In order to implement a quick exhaust, the VBQF must be attached directly to the supply port of the drive. The VBQF can be mounted in any position and can also be turned.

The VBQF is available with or without silencer.

Features:

- Minimal height
- High flow rateImproved noise emissions
- Can be rotated (continuous rotation of the connection must, however, be avoided)

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Function	Version	Туре		Pneumatic connection	Pneumatic connection						
				1 (valve)	2 (drive)						
Quick exhaust valves	Flat design										
		VBQF-U	With silencer	G1⁄8,	G1⁄8	3					
				QS-6							
				G1⁄4,	G1⁄4						
				QS-8							
		VBQF-D	Without silencer	G1⁄8,	G1⁄8	3					
				QS-6							
				G1⁄4	G1⁄4						
	Compact design										
		SEU	With silencer	G ¹ /8, G ¹ /4, G ³ /8, G ¹ /2	G ¹ /8, G ¹ /4, G ³ /8, G ¹ /2	seu					
		SE	Without silencer	G1/8, G1/4, G3/8, G1/2, G3/4	G1/8, G1/4, G3/8, G1/2, G3/4	se					

Type cod	les						
	[VBQF	- 🗌	U	 G18]- [E
Туре							
VBQF	Quick exhaust valve, flat design						
Exhau	st air						
U	Unducted exhaust air						
D	Ducted exhaust air						
Pneun	natic connection 2 (drive)						
G18	Thread G1⁄8					1	
G14	Thread G1⁄4						
Pneum	natic connection 1 (valve)						
E	Threaded connection, like pneumatic connection 2 (drive)						
Q6	Push-in connector QS-6						

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Quick exhaust valves VBQF Technical data

Unducted exhaust air VBQF-U



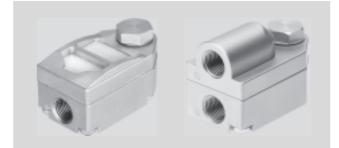
Ducted exhaust air VBQF-D



- 11 _ Flow rate 2,500 l/min - 1

Temperature range -20 ... +80 °C

Operating pressure 0.5 ... 10 bar



General technical data								
Exhaust air		Unducted exhaust air VBQF-U				Ducted exhaust air VBQF-D		
Pneumatic connection 2 (drive)		G1⁄8		G1⁄4		G1⁄8		G1⁄4
Pneumatic connection 1 (valve)		G1⁄8	QS-6	G1⁄4	QS-8	G1⁄8	QS-6	G1⁄4
Pneumatic connection 3 (exhaust air)		– (silencer)		– (silencer)		G1⁄8	QS-8	G1⁄4
Valve function		Quick exhaust						
Nominal size	[mm]	5	5		7			7
Type of mounting	Screw-in							
Mounting position		Any						
Noise level	[dB (A)]	75		75		-		-

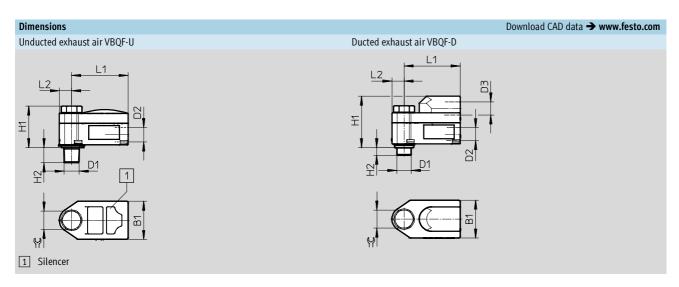
Operating and environmental con	ditions					
Type of connection		Threaded connection	Push-in connector QS			
Operating pressure	[bar]	0.5 10				
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)				
Ambient temperature	[°C]	-20 +80	-10 +60			
Temperature of medium	[°C]	-20 +80	-10 +60			
Corrosion resistance class CRC ¹⁾		1	•			

1) Corrosion resistance class 1 according to Festo standard 940 070 Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Materials	
Housing	Die-cast zinc, die-cast aluminium
Seals	NBR
Note on materials	RoHS-compliant

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Туре	Connection D1	D2	D3	B1	H1	H2	L1	L2	Ŷ
VBQF-U-G18-E	G1⁄8	G1⁄8	-	25	27.4	5.3	37	8	12
VBQF-U-G18-Q6	0-78	QS-6	-	20		5.5	41		12
VBQF-U-G14-E	G1⁄4	G1⁄4	-	32	38	6.2	54	10.5	15
VBQF-U-G14-Q8	074	QS-8	-)2	0	0.2	58	10.5	15
VBQF-D-G18-E	G1⁄8	G1⁄8	G1⁄8	25	33.9	5.3	37	8	12
VBQF-D-G18-Q6	078	QS-6	QS-8	20	55.9	5.5	41	0	12
VBQF-D-G14-E	G1⁄4	G1⁄4	G1⁄4	32	42	6.2	54	10.5	15

Ordering data	a								
Version	Pneuma	tic connecti	on	Standard nomin at 6 bar \rightarrow 5 ba	•	Standard flow rate qn at 6 bar \rightarrow 0 bar	Weight	Part No.	Туре
				Pressurisation $1 \rightarrow 2$	Exhausting $2 \rightarrow 3$	Exhausting $2 \rightarrow 3$			
	2	2 1 3 [l/min] [l/min]		[l/min]	[g]				
Unducted exł	naust air								
	G1⁄8	G1⁄8	-	350	-	1,300	84.2	547531	VBQF-U-G18-E
		QS-6	-	350	-	1,300	85.5	547532	VBQF-U-G18-Q6
	G1⁄4	G1⁄4	-	960	-	2,500	226	548001	VBQF-U-G14-E
		QS-8	-	800	-	2,500	232	548002	VBQF-U-G14-Q8
Ducted exhau	ıst air								
<u> </u>	G1⁄8	G1⁄8	G1⁄8	350	850	1,300	102.5	547533	VBQF-D-G18-E
		QS-6	QS-8	350	850	1,300	105	547534	VBQF-D-G18-Q6
	G1⁄4	G1⁄4	G1⁄4	960	1,500	2,500	253	548003	VBQF-D-G14-E